

I claim:

1           1. A design for agricultural and landscape irrigation fittings ready made  
2 according to demand comprising:  
3           a plurality of basic parts including:  
4                 a common body; or  
5                 a plurality of different types of termination fittings;  
6           wherein the plurality of basic parts can be assembled together in various  
7 combinations to form a multiplicity of distinct complete connectors.

1           2. The design of claim 1, wherein said common body has one or more variations  
2 including:  
3           a T-body;  
4           a 90 degree elbow body;  
5           a swivel hose body; or  
6           a ball valve body.

1           3. The design of claim 1, wherein the plurality of basic parts further include:  
2           a one-half inch MPT termination fitting;  
3           a three-quarter inch MPT termination fitting; or  
4           a three-quarter inch MHT termination fitting.

1           4. The design of claim 1, wherein the common body has male ports.

1           5. The design of claim 1, wherein the plurality of basic parts are assembled by  
2   sonic welding.

1           6. The design of claim 1, wherein the plurality of basic parts further include:  
2           a tee with hub base for female threaded hose swivel;  
3           a .250" barbed termination fitting;  
4           a .400" barbed termination fitting;  
5           a .700" barbed termination fitting;  
6           a one-half inch pipe spigot termination fitting;  
7           a one-half inch pipe socket termination fitting;  
8           a three-quarter inch pipe socket termination fitting; or  
9           a three-quarter inch ball valve body.

1           7. The design of claim 1 wherein the termination fittings are a compression type  
2   for tubing.

1           8. The design of claim 1 wherein the termination fittings are an insert type.

1           9. A method of manufacturing fittings according to individual customer demand  
2   suitable for agricultural and irrigation applications comprising the steps of:

3           providing a plurality of basic parts including a common body, and a plurality of  
4   termination fittings; and

5 assembling the basic parts in various combinations to form a multiplicity of  
6 distinct complete connectors.

1 10. The method of manufacturing connectors as in Claim 9 and further  
2 comprising the step of sonic welding the basic parts together:

1 11. The method of manufacturing connectors as in Claim 9 wherein the common  
2 body has one or more variations including a T-body, an elbow body, a swivel hose  
3 body, or a ball valve body.

1 12. The method of manufacturing connectors as in Claim 9 and further  
2 comprising the step of providing additional basic parts including a tee with hub base for  
3 female threaded hose swivel, a .250" barbed termination fitting; a .400" barbed  
4 termination fitting, a .700" barbed termination fitting, a one-half inch pipe spigot  
5 termination fitting, a one-half inch pipe socket termination fitting, a three-quarter inch  
6 pipe socket termination fitting; or a three-quarter inch ball valve body.

1 13. The method as in claim 9 wherein the assembling step is performed using  
2 sonic welding.

1 14. A method of providing an inventory of made-to-demand fittings suitable for  
2 agricultural and irrigation applications comprising:

3 providing a common body with at least two ports, which ports lack termination  
4 fittings or selected termination fittings for coupling to the common body according to  
5 demand; and

6 coupling the selected termination fittings to the common body or the selected  
7 termination fittings together to form a fluid-tight seal between them and to provide a  
8 completed connector according to demand.

1 15. The method of claim 14 where providing the common body comprises  
2 selectively providing a T-body, elbow body, swivel hose body, or ball valve body  
3 according to demand.

1 16. The method of claim 14 where providing selected termination fittings  
2 according to demand comprises selectively providing threaded, barbed or spigot  
3 termination fittings of selected sizes, hose swivel fittings of selected sizes, pipe socket  
4 termination fittings of selected sizes, ball valve bodies of selected sizes, or tubing  
5 compression or insert-type termination fittings, each according to demand to couple to  
6 the common body.

1 17. The method of claim 14 where providing the common body provides a  
2 body with ports of a first one of a male or female type, and where providing selected  
3 termination fittings for coupling to the common body according to demand provides  
4 termination fittings of a second one of a male or female type, opposite the first type.

1           18.    The method of claim 17 where providing a common body with ports of a  
2   first one of a male or female type comprises providing a common body with male type  
3   ports, and where providing termination fittings of a second one of a male or female type  
4   comprises providing termination fittings of a female type.

1           19.    A made-to-demand fitting suitable for agricultural and irrigation  
2   applications comprising:  
3           a common body with at least two ports, which ports lack termination fittings; and  
4           termination fittings selected according to demand coupled to the common body to  
5   form a fluid-tight seal thereto.

1           20.    The fitting of claim 19 where the common body comprises a multiple port  
2   manifold selected according to demand.

1           21.    The fitting of claim 19 where the selected termination fittings comprises  
2   threaded, barbed or spigot termination fittings of selected sizes, hose swivel termination  
3   fittings of selected sizes, pipe socket termination fittings of selected sizes, ball valve  
4   bodies of selected sizes, or tubing compression or insert-type termination fittings, each  
5   selected according to demand.

1           22.    The fitting of claim 19 where the common body has ports of a first one of a  
2   male or female type, and where the selected termination fittings for coupling to the  
3   common body have a second one of a male or female type, opposite to the first type.

1           23.    The fitting of claim 22 where the ports are male type ports, and the  
2   termination fittings are of a female type.

1           24.    A made-to-demand fitting suitable for agricultural and irrigation  
2   applications as an adapter comprising:  
3           a male termination fitting of a first type selected according to demand; and  
4           a female termination fitting of a second type different from the first type selected  
5   according to demand, the male and female termination fittings being coupled together to  
6   form a fluid-tight seal thereto.

1           25.    The fitting of claim 24 where the first type of fittings is a compression fitting  
2   and where the second type of fitting is an insert fitting.